Author Index

Abul Qasim, M.: *see* Tayyab, S., 55
Anderson, A. J., Haywood, G. W. and Dawes, E. A.: Biosynthesis and composition of bacterial poly(hydroxylalkanoates), 102
Andrade, C.: *see* Campana, S., 379
Aoki, K.: *see* Yamasaki, M., 263

Barciszewska, M.: *see* Joachimiak, A., 321; Mashkova, T. D., 247
Barciszewski, J.: *see* Joachimiak, A., 321; Mashkova, T. D., 247
Baumann, H.: *see* Jerg, K. R., 153
Belton, P. S.: *see* Tanner, S. F., 302
Bemski, G.: *see* El-Jaick, L. J., 59
Bertocchi, C.: *see* Cesaro, A., 79
Bertrand, C.: *see* Durand, D., 14
Bhattacharyya, M., Chaudhuri, U. and Poddar, R. K.: Studies on the interaction of chlorpromazine with haemoglobin, 297
Bihari-Varga, M.: *see* Labat-Robert, J., 50
Bihari-Varga, M., Tolgyesi, F., Pelczer, J., Mok, T. and Lee, D. M.: Physicochemical studies of two major subpopulations of low density lipoproteins by differential scanning calorimetry and n.m.r. spectroscopy, 207
Biondi, L.: *see* Filira, F., 41
Bloomberg, G. B.: *see* Enser, M., 118
Brisson, J.: *see* Chanzy, H., 25
Brock, C.: *see* Enser, M., 118
Brock, J. H.: *see* Calvo, M., 2
Brumfeld, V.: *see* Lester, D. S., 251
Buléon, A.: *see* Chanzy, H., 25
Buléon, A. and Tran, V.: Systematic conformational search for the branching point of amylopectin, 345

Calvo, M., Pineiro, A., Brock, J. H., Castillo, H., Sanchez, L. and Lampreave, F.: Interaction of bovine lactoferrin with other proteins of milk whey, 2
Campana, S., Andrade, C., Milas, M. and Rinaudo, M.: Polyelectrolyte and rheological studies on the polysaccharide welan, 379
Cartier, N.: *see* Chanzy, H., 289
Castiglione-Morelli, A., Scopa, A., Tamburro, A. M. and Guantieri, V.: Spectroscopic studies on elastin-like synthetic polypeptides, 363
Castillo, H.: *see* Calvo, M., 2
Catasti, P.: *see* Pepe, I., 177
Ceccorulli, G.: *see* Scandola, M., 112
Cesaro, A., Delben, F. and Paoletti, S.: Thermodynamics of the proton dissociation of natural polyuronic acids, 170
Cesaro, A., Liut, G., Bertocchi, C., Navarini, L. and Urbani, R.: Physicochemical properties of the exocellular polysaccharide from *Cyanospira capsulata*, 79
Chanzy, H., Buléon, A., Delage, M. M. and Brisson, J.: Single crystals of V amylose complexed with isopropanol and acetone, 25
Chanzy, H., Cartier, N. and Domard, A.: Single crystals of chitosan, 289
Chaudhuri, U.: *see* Bhattacharyya, M., 297
Chen, S.: *see* Li, H., 374
Clark, A. H.: *see* Durand, D., 14
Clark, D. C.: *see* Enser, M., 118
Clarke-Sturman, A. J.: *see* Gravanis, G., 195, 201
Conway, J. F. and Parry, D. A. D.: Structural features in the heptad substructure and longer range repeats of two-stranded α-fibrous proteins, 328
Cummings, C.: *see* Scott, J. E., 180

Dachet, C.: *see* Wegrowski, J., 213
Dalgleish, D. G.: *see* Dickinson, E., 189
Damle, S. P.: *see* Scott, J. E., 180
Dawes, E. A.: *see* Anderson, A. J., 102
Delage, M. M.: *see* Chanzy, H., 25
Delben, F.: *see* Cesaro, A., 170
Delben, F., Lapasin, R. and Pricl, S.: Flow properties of *N*-(carboxymethyl) chitosan aqueous systems in the sol and gel domains, 9
Dickinson, E., Rolfe, S. E. and Dalgleish, D. G.: Surface shear viscometry as a probe of protein–protein interactions in mixed milk protein films adsorbed at the oil–water interface, 189
Dio, Y.: *see* Scandola, M., 112
Doi, Y., Segawa, A. and Kunioka, M.: Biosynthesis and characterization of poly(3-hydroxybutyrate-*co*-4-hydroxybutyrate) in *Alcaligenes eutrophus*, 106
Domard, A.: *see* Chanzy, H., 289
Durand, D., Bertrand, C., Clark, A. H. and Lips, A.: Calcium-induced gelation of low methoxy pectin solutions thermodynamic and rheological considerations, 14

El-Jaick, L. J., Linhares, M. P., Bemski, G. and Wajnberg, E.: E.p.r. studies of photolysis of nitrosyl haemoglobin at low temperatures, 59
El-Saleh, S. C.: *see* Johnson, P., 269
Enser, M., Bloomberg, G. B., Brock, C. and Clark, D. C.: *De novo* design and structure–activity relationship of peptide emulsifiers and foaming agents, 118

Filira, F., Biondi, L., Scolaro, B., Foffani, M. T., Mammi, S., Peggion, E. and Rocchi, R.: Solid phase synthesis and conformation of sequential glycosylated polytripeptide sequences related to antifreeze glycoproteins, 41
Fita, I.: *see* Verdaguer, N., 315
Foffani, M. T.: *see* Filira, F., 41
Friedl, P.: *see* Jerg, K. R., 153
Fritzsche, K., Lenz, R. W. and Fuller, R. C.: Production of unsaturated polyesters by *Pseudomonas oleovorans*, 85; Bacterial polyesters containing branched poly(β-hydroxyalkanoate) units, 92
Fujii, T.: *see* Ogoma, Y., 185
Fuller, R. C.: *see* Fritzsche, K., 85, 92

Garcia Bernal, J. M.: *see* Tirado Garcia, M. M., 19
Giammatteo, P. J., Stipanovic A. J., Nero, V. P. and Robison, P. D.: Evidence for microbial polysaccharide preparations containing polyester substituents, 311
Glazebrook, J.: *see* Walker, G. C., 67
Goodfellow, J. M.: *see* Vovelle, F., 369
Gravanis, G., Milas, M., Rinaudo, M. and Clarke-Sturman, A. J.: Conformational transition and polyelectrolyte behaviour of a succinoglycan polysaccharide, 195; Rheological behaviour of a succinoglycan polysaccharide in dilute and semi-dilute solutions, 201
Gregory, J. D.: *see* Scott, J. E., 180
Greiling, H.: *see* Scott, J. E., 180
Gruber, E.: *see* Labat-Robert, J., 50
Guantieri, V.: *see* Castiglione-Morelli, A., 363
Gunning, A. P. and Morris, V. J.: Light scattering studies of tetramethyl ammonium gelan, 338

Hachimori, A.: *see* Ogoma, Y., 185
Hatano, M.: *see* Ogoma, Y., 185
Hayashi, T.: *see* Ogawa, K., 218
Haywood, G. W.: *see* Anderson, A. J., 102
Higgs, P. G.: *see* Ross Murphy, S. B., 233
Hong, H.: *see* Johnson, P., 269

Ikeda, K.: *see* Yamamoto, H., 305
Ishigaki, H. and Sugai, S.: Conformational comparisons among homologous bony fish 5S ribosomal RNAs, 35

Jerg, K. R., Baumann, H., Keller, R. and Friedl, P.: Fermentation of bovine endothelial cells for preparation of endothelial cell-surface heparan sulphate, 153
Jimenez Rioz, M. A.: *see* Tirado Garcia, M. M., 19
Joachimiak, A.: *see* Mashkova, T. D., 247
Joachimiak, A., Nalaskowska, M., Barciszewska, M., Barciszewski, J. and Mashkova, T.: Higher plant 5S rRNAs share common secondary and tertiary structure. A new three domains model, 321
Johnson, P., Hong, H. and El-Saleh, S. C.: Effects of calcium and calmodulin antagonists on calpain II subunit conformations, 269

Kawaura, T.: *see* Yamamoto, H., 257
Keller, R.: *see* Jerg, K. R., 153
Kobayashi, H.: *see* Ogoma, Y., 185
Kondo, Y.: *see* Ogama, Y., 185
Kotva, R.: *see* Pytela, J., 241
Kunioka, M.: *see* Doi, Y., 106
Kuno, S.: *see* Yamamoto, H., 305

Labat-Robert, J., Gruber, E. and Bihari-Varga, M.: Interaction between fibronectin proteoglycans and lipoproteins, 50
Lampreave, F.: *see* Calvo, M., 2
Lapasin, R.: *see* Delben, F., 9
Lee, D. M.: *see* Bihari-Varga, M., 207
Lenz, R. W.: *see* Fritzsche, K., 85, 92
Lester, D. S. and Brumfeld, V.: Ligan-induced conformational changes in cytosolic protein kinase C, 251
Li, H., Chen, S. and Zhao, H.: Fractal structure and conformational entropy of protein chain, 374
Li, H., Li, Y. and Zhao, H.: Fractal analysis of protein chain conformation, 6
Li, Y.: *see* Li, H., 6
Liang, J. N.: Circular dichroism of the non-enzymatic browning products of poly-L-lysine and albumin, 273
Liljas, A.: *see* Vidgren, J., 342
Linhares, M. P.: *see* El-Jaick, L. J., 59
Lips, A.: *see* Durand, D., 14
Liut, G.: *see* Cesaro, A., 79

Mammi, S.: *see* Filira, F., 41
Marchessault, R. H., Monasterios, C. J., Morin, F. G. and Sundararajan, P. R.: Chiral poly(β-hydroxyalkanoates): an adaptable helix influenced by the alkane side-chain, 158
Marvin, D. A.: Model-building studies of *Inovirus*: genetic variations on a geometric theme, 125
Mashkova, T. D., Barciszewska, M. Z., Joachimiak, A., Nalaskowska, M. and Barciszewski, J.: Molecular evolution of plants as deduced from changes in free energy of 5S ribosomal RNAs, 247
Mashkova, T.: *see* Joachimiak, A., 321
Metalova, M.: *see* Pytela, J., 241

Milas, M.: *see* Campana, S., 379; Gravanis, G., 195, 201
Moczar, M.: *see* Wegrowski, J., 213
Mok, T.: *see* Bihari-Varga, M., 207
Monasterios, C. J.: *see* Marchessault, R. H., 158
Morin, F. G.: *see* Marchessault, R. H., 158
Morris, V. J.: *see* Gunning, A. P., 338; Tanner, S. F., 302

Nagai, A.: *see* Yamamoto, H., 305
Nalaskowska, M.: *see* Joachimiak, A., 321; Mashkova, T. D., 247
Navarini, L.: *see* Cesaro, A., 79
Nero, V. P.: *see* Giammatteo, P. J., 311
Nicolini, C.: *see* Pepe, I., 177
Nishida, A.: *see* Yamamoto, H., 257, 305
Nizzari, M.: *see* Pepe, I., 177
Noel, T. R.: *see* Whittam, M. A., 359

Ogawa, K., Hayashi, T. and Okamura, K.: Conformational analysis of xyloglucans, 218
Ogawa, R.: *see* Sashiwa, H., 295
Ogama, Y., Kobayashi, H., Fujii, T., Kondo, Y., Hachimori, A., Shimizu, T. and Hatano, M.: F-n.m.r. study of trifluoperazine–S100 protein interaction: effects of Ca^{2+} and Zn^{2+}, 185
Okamura, K.: *see* Ogawa, K., 218

Panfoli, I.: *see* Pepe, I., 177
Paoletti, S.: *see* Cesaro, A., 170
Parry, D. A. D.: *see* Conway, J. F., 328
Peggion, E.: *see* Filira, F., 41
Pelczer, J.: *see* Bihari-Varga, M., 207
Pepe, I., Rauch, G., Catasti, P., Nizzari, M., Panfoli, I. and Nicolini, C.: Biophysical approach to the determination of the secondary structure of the histone H1 globular region, 177
Pineiro, A.: *see* Calvo, M., 2
Poddar, R. K.: *see* Bhattacharyya, M., 297
Pricl, S.: *see* Delben, F., 9
Pytela, J., Kotva, R., Metalova, M. and Rypacek, F.: Degradation of N^3-(2-hydroxyethyl)-L-glutamine and L-glutamic acid homopolymers and copolymers by papain, 241

Rauch, G.: *see* Pepe, I., 177
Reed, J. W.: *see* Walker, G. C., 67
Reuber, T. L.: *see* Walker, G. C., 67
Rinaudo, M.: *see* Campana, S., 379; Gravanis, G., 195, 201
Ring, S. G.: *see* Whittam, M. A., 359
Robert, L.: *see* Wegrowski, J., 213
Robison, P. D. *see* Giammatteo, P. J., 311
Rocchi, R.: *see* Filira, F., 41
Rochas, C., Taravel, F.-R. and Turquois, T.: N.m.r. studies of synergistic kappa carrageennan–carob galactomannan gels, 353
Rolfe, S. E.: *see* Dickinson, E., 189
Ross-Murphy, S. B. and Higgs, P. G.: Creep measurements on gelatin gels, 233
Ross-Murphy, S. B., Shatwell, K. P. and Sutherland, I. W.: Influence of acetyl and pyruvate substituents on the solution properties of xanthan polysaccharide, 71
Rypacek, F.: *see* Pytela, J., 241

Saimoto, H.: *see* Sashiwa, H., 295
Sanchez, L.: *see* Calvo, M., 2
Sashiwa, H., Saimoto, H., Shigemasa, Y., Ogawa, R. and Tokura, S.: Lysozyme susceptibility of partially deacetylated chitin, 295
Scandola, M., Ceccorulli, G. and Dio, Y.: Viscoelastic relaxations and thermal properties of bacterial poly(3-hydroxybutyrate-*co*-3-hydroxyvalerate) and poly(3-hydroxybutyate-*co*-4-hydroxybutyrate), 112
Scolaro, B.: *see* Filira, F., 41
Scopa, A.: *see* Castiglione-Morelli, A., 363
Scott, J. E., Cummings, C., Greiling, H., Stuhlstaz, H. W., Gregory, J. D. and Damle, S. P.: Examination of corneal proteoglycans and glycosaminoglycans by rotary shadowing and electron microscopy, 180
Segawa, A.: *see* Doi, Y.: 106
Shabtai, Y.: Production of exopolysaccharides by *Acinetobacter* strains in a controlled fed-batch fermentation process using soap stock oil (SSO) as carbon source, 145
Shatwell, K. P.: *see* Ross-Murphy, S. B., 71
Shigemasa, Y.: *see* Sashiwa, H., 295
Shimizu, T.: *see* Ogoma, Y., 185
Stipanovic, A. J.: *see* Giammatteo, P. J., 311
Stros, M. and Vorlckova, M.: Non-histone chromosomal protein HMG1 reduces the histone H5-induced changes in c.d. spectra of DNA: the acidic c-Terminus of HMG1 is necessary for binding to H5, 282
Stuhlstaz, H. W.: *see* Scott, J. E., 180
Subirana, J. A.: *see* Verdaguer, N., 315
Sugai, S.: *see* Ishigaki, H., 35
Sundararajan, P. R.: *see* Marchessault, R. H., 158
Sutherland, I. W.: *see* Ross-Murphy, S. B., 71

Tamburro, A. M.: *see* Castiglione-Morelli, A., 363
Tanner, S. F., Morris, V. J. and Belton, P. S.: Multinuclear n.m.r. studies of group 1 cations in furcellaran gels, 302
Taravel, F.-R.: *see* Rochas, C., 353
Tayyab, S. and Abul Qasim, M.: Binding of bromophenol blue to bovine serum albumin and its succinylated forms, 55
Tirado Garcia, M. M., Jimenez Rios, M. A. and Garcia Bernal, J. M.: Translational diffusion and intrinsic viscosity of globular proteins. Theoretical predictions using hydrated hydrodynamics models application to BPTI, 19
Tokura, S.: *see* Sashiwa, H., 295
Tolgyesi, F.: *see* Bihari-Varga, M., 207
Tran, V.: *see* Buléon, A., 345
Turquois, T.: *see* Rochas, C., 353

Urbani, R.: *see* Cesaro, A., 79

Verdaguer, N., Fita, I. and Subirana, J. A.: Molecular structure of L-lysyl-L-serine acetate, 315
Vidgren, J., Liljas, A. and Walker, N. P. C.: Refined structure of the acetazolamide complex of human carbonic anhydrase II at 1.9 Å, 342
Vorlckova, M.: *see* Stros, M., 282
Vovelle, F. and Goodfellow, J. M.: Sequence dependent hydration of DNA, 369

Waite, J. H.: Marine adhesive proteins: natural composite thermosets, 139
Wajnberg, E.: *see* El-Jaick, L. J., 59
Walker, G. C., Glazebrook, J., Reed, J. W. and Reuber, T. L.: Genetic analyses of *Rhizobium meliloti* exopolysaccharides, 67
Walker, N. P. C.: *see* Vidgren, J., 342
Wegrowski, J., Moczar, M., Robert, L. and Dachet, C.: Comparative study of the precipitation of low density lipoproteins by aortic proteodermatan sulphate and heparin, 213
Whittam, M. A., Noel, T. R. and Ring, S. G.: Melting behaviour of A- and B-type crystalline starch, 359

Yamamoto, H., Nishida, A. and Kawaura, T.: Photoresponsive peptide and polypeptide systems: 10. Synthesis and reversible photochromism of azo aromatic poly(L-α,β-diaminopropionic acid), 257
Yamamoto, H., Kuno, S., Nagai, A., Nishida, A., Yamauchi, S. and Ikeda, K.: Insolubilizing and adhesive studies of water-soluble synthetic model proteins, 305
Yamasaki, M., Yano, H. and Aoki, K.: Differential scanning calorimetric studies on bovine serum albumin: I. Effects of pH and ionic strength, 263
Yamauchi, S.: *see* Yamamoto, H., 305
Yano, H.: *see* Yamasaki, M., 263

Zhang, C.-T. and Zhou, G. F.: Analysis of patterns of twist angles in DNA double helix, 226
Zhao, H.: *see* Li, H., 6, 374
Zhou, G. F.: *see* Zhang, C.-T., 226

Subject Index

Acetazolamide
  X-ray crystallography, Carbonic anhydrase: 342
Acinetobacter calcoaceticus
  Exopolysaccharides, Soap stock oil: 145
Adhesive model polypeptides
  Conformaton, Bonding strengths: 305
Alcaligenes eutrophus
  Poly(hydroxyalkanoates), Biosynthesis: 102
  Microbial copolyesters, Microstructure: 106
Amylopectin
  Conformation, Modelling: 345
Amylose
  Single crystals, Electron diffraction: 25
  Crystal melting, Spherulites: 359
Atherosclerosis
  Fibronectin, Low density lipoproteins: 50
  Proteoglycans, Low density lipoproteins: 213
Azo aromatic polypeptides
  Photochromism, β-structure: 257

Binding parameters
  Chlorpromazine, Haemoglobin: 297
Biopolymers
  Viscoelasticity, Thermal properties: 112
Biosynthesis
  Poly(hydroxyalkanoates), *Alcaligenes eutrophus*: 102
Bonding strengths
  Adhesive model polypeptides, Conformation: 305
Bony fish
  5S ribosomal RNA, Thermal melting: 35
Bovine pancreatic trypsin inhibitor
  Globular proteins, Hydrodynamics: 19
Bovine serum albumin
  Bromophenol blue, Conformation: 55
  Differential scanning calorimetry, Thermal denaturation: 263
Bromophenol blue
  Bovine serum albumin, Conformation: 55

C-n.m.r.
  Poly(β-hydroxybutyrate), Gellan: 311
Ca^{2+}-binding protein
  S100 protein, 19 F n.m.r.: 185
Calcium-induced gelation
  Sol–gel diagrams, Thermodynamic parameters: 14
Calmodulin antagonists
  Calpain, U.v. fluorescence: 269
Calpain
  Calmodulin antagonists, U.v. fluorescence: 269
Carbonic anhydrase
  X-ray crystallography, Acetazolamide: 342
Chitin
  Lysozyme, Gel permeation chromatography: 295
Chitosan
  Electron diffraction, Single crystals: 289
Chlorpromazine
  Haemoglobin, Binding parameters: 297
Circular dichroism
  Serum albumin, Poly-L-lysine: 273
  DNA conformation, DNA–protein interaction: 282
  Elastin, N.m.r. spectroscopy: 363
Conformation
  Adhesive model polypeptides, Bonding strengths: 305
  Amylopectin, Modelling: 345
  Bromophenol blue, Bovine serum albumin: 55
  Exopolysaccharides, *Cyanospira capsulata*: 79
  Glycopeptides, Random coils: 41
  Lipids, Tryptophan: 251
Conformational analysis
  Pea xyloglucan, X-ray diffraction: 218
Conformational entropy
  Protein chain, Fractal dimension: 374
Conformational transition
  Polyelectrolyte, Succinoglycan polysaccharide: 195
Corneal proteoglycans
  Rotary shadowing, Electron microscopy: 180
Crystal melting
  Amylose, Spherulites: 359
Crystal structure
  Lysine, Peptide conformation: 315
Cyanospira capsulata
  Exopolysaccharides, Conformation: 79

DNA
  Twist angles, Double helix: 226
  Hydration, Oligonucleotides: 369
DNA conformation
  Circular dichroism, DNA–protein interaction: 282
DNA–protein interaction
  Circular dichroism, DNA conformation: 282
Degradation
  Polypeptides, Papain: 241
Differential geometry
  Filamentous bacteriophage, Fibre diffraction: 125
Differential scanning calorimetry
  Bovine serum albumin, Thermal denaturation: 263
Double helix
  DNA, Twist angles: 226

Elastin
  N.m.r. spectroscopy, Circular dichroism: 363
Electron diffraction
  Amylose, Single crystals: 25
  Chitosan, Single crystals: 289
Electron microscopy
  Rotary shadowing, Corneal proteoglycans: 180
Electron spin resonance
  Photolysis, Haemoglobin: 59
Emulsifiers
  Peptides, Foaming agents: 118
Endothelial cells
  Fermentation, Serum-free medium: 153
Evolution
  Free energy, Nucleic acids: 247
Exopolysaccharide
  Polysaccharide structure, Genetic analyses: 67
Exopolysaccharides
  Cyanospira capsulata, Conformation: 79
  Acinetobacter calcoaceticus, Soap stock oil: 145

Fermentation
  Endothelial cells, Serum-free medium: 153
Fibre diffraction
  Filamentous bacteriophage, Differential geometry: 125
Fibronectin
  Low density lipoproteins, Atherosclerosis: 50
α-Fibrous proteins
  Myosin, Intermediate filaments: 328
Filamentous bacteriophage
  Fibre diffraction, Differential geometry: 125
19 F n.m.r.
  S100 protein, Ca^{2+}-binding protein: 185
Foaming agents
  Peptides, Emulsifiers: 118
Fractal analysis
  Protein conformation, Fracton: 6
Fractal dimension
  Protein chain, Conformational entropy: 374
Fracton
  Protein conformation, Fractal analysis: 6
Free energy
  Evolution, Nucleic acids: 247
Furcellaran
  Multinuclear n.m.r., Gel: 302

GOR method
  Histone H1, Protein structure: 177
Gel
  N-(carboxymethyl) chitosan, Rheology: 9
  Gelatin, Rheology: 233
  Multinuclear n.m.r., Furcellaran: 302
  N.m.r. spectroscopy, Interaction: 353
Gel permeation, chromatography
  Chitin, Lysozyme: 295
Gelatin
  Rheology, Gel: 233
Gelation
  Gellan, Light scattering: 338
Gellan
  Gelation, Light Scattering: 338
  Poly(β-hydroxybutyrate), C-n.m.r.: 311
Genetic analyses
  Exopolysaccharide, Polysaccharide structure: 67
Globular proteins
  Hydrodynamics, Bovine pancreatic trypsin inhibitor: 19
Glycopeptides
  Conformation, Random coils: 41

Haemoglobin
  Photolysis, Electron spin resonance: 59
  Chlorpromazine, Binding parameters: 297
Helical conformation
  Poly(β-hydroxyalkanoates), X-ray diffraction: 158
Histone
  GOR method, Protein structure: 177
Hydration
  DNA, Oligonucleotides: 369
Hydrodynamics
  Globular proteins, Bovine pancreatic trypsin inhibitor: 19

Interaction
  Gel, N.m.r. spectroscopy: 353
Intermediate filaments
  Myosin, α-Fibrous proteins: 328
Intrinsic viscosity
  Xanthan, Microbial polysaccharide: 71

Lactoferrin
  Whey, β-lactoglobulin: 2
β-Lactoglobulin
  Lactoferrin, Whey: 2
Light scattering
  Gellan, Gelation: 338
Lipids
  Conformation, Tryptophan: 251
Low density lipoproteins
  Fibronectin, Atherosclerosis: 50
  Proteoglycans, atherosclerosis: 213
  Transition temperature, Structural alteration: 207
Lupinus luteus
  Nuclease, Structure: 321
Lysine
  Crystal structure, Peptide conformation: 315

Lysozyme
Chitin, Gel permeation chromatography: 295

Marine adhesives
Resins, *Mytilus edulis*: 139
Micro-organism
Unsaturated polyesters, *Pseudomonas oleovorans*: 85
Microbial copolyesters
Alcaligenes eutrophus, Microstructure: 106
Microbial polysaccharide
Xanthan, Intrinsic viscosity: 71
Microstructure
Microbial copolyesters, *Alcaligenes eutrophus*: 106
Milk protein films
Protein–protein interactions, Surface shear viscometry: 189
Modelling
Amylopectin Conformation: 345
Multinuclear n.m.r.
Gel, Furcellaran: 302
Myosin
Intermediate filaments, α-Fibrous proteins: 328
Mytilus edulis
Marine adhesives, resins: 139

N-(carboxymethyl) chitosan
Rheology, Gel: 9
N.m.r. spectroscopy
Elastin, Circular dichroism: 363
Gel, Interaction: 353
Polyesters, *Pseudomonas oleovorans*: 92
Nuclease
Lupinus luteus, Structure: 321
Nucleic acids
Evolution, Free energy: 247

Oligonucleotides
DNA, Hydration: 369

Papain
Polypeptides, Degradation: 241
Pea xyloglucan
X-ray diffraction, Conformational analysis: 218
Peptide conformation
Crystal structure, Lysine: 315
Peptides
Emulsifiers, Foaming agents: 118
Photochromism
β-structure, Azo aromatic polypeptides: 257
Photolysis
Haemoglobin, Electron spin resonance: 59
Poly(β-hydroxyalkanoates)
X-ray diffraction, Helical conformation: 158
Poly(β-hydroxybutyrate)
Gellan, C-n.m.r.: 311
Poly(hydroxyalkanoates)
Alcaligenes eutrophus, Biosynthesis: 102
Poly-L-lysine
Serum albumin, Circular dichroism: 273

Polyelectrolyte
Conformational transition, Succinoglycan polysaccharide: 195
Polyesters
Pseudomonas oleovorans, N.m.r. spectroscopy: 92
Polypeptides
Degradation, Papain: 241
Polysaccharide
Welan, Rheology: 379
Polysaccharide structure
Exopolysaccharide, Genetic analyses: 67
Polyuronic acids
Proton dissociation, Thermodynamics: 170
Protein chain
Fractal dimenson, Conformational entropy: 374
Protein conformation
Fractal analysis, Fracton: 6
Protein structure
Histone H1, GOR method: 177
Protein–protein interactions
Surface shear viscometry, Milk protein films: 189
Proteoglycans
Low density lipoproteins, Atherosclerosis: 213
Proton dissociation
Polyuronic acids, Thermodynamics: 170
Pseudomonas oleovorans
Unsaturated polyesters, Micro-organism: 85
Polyesters, N.m.r. spectroscopy: 92

Random coils
Glycopeptides, Conformation: 41
Resins
Marine adhesives, *Mytilus edulis*, 139
Rheology
N-(carboxymethyl) chitosan, Gel: 9
Succinoglycan polysaccharide, Structural transition: 201
Gelatin, Gel: 233
Polysaccharide, Welan: 379
Rotary shadowing
Electron microscopy, Corneal proteoglycans: 180

S100 protein
Ca^{2+}-binding protein, 19 F n.m.r.: 185
Serum albumin
Circular dichroism, Poly-L-lysine: 273
Serum-free medium
Endothelial cells, Fermentation: 153
Single crystals
Amylose, Electron diffraction: 25
Chitosan, Electron diffraction: 289
Soap stock oil
Exopolysaccharides, *Acinetobacter calcoaceticus*: 145
Sol–gel diagrams
Calcium-induced gelation, Thermodynamic parameters: 14
Spherulites
Amylase, Crystal melting: 359

5S ribosomal RNA
Bony fish, Thermal melting: 35
Structural alteration
Transition temperature, Low density lipoproteins: 207
Structural transition
Succinoglycan polysaccharide, Rheology: 201
Structure
Lupinus luteus, Nuclease: 321
β-Structure
Photochromism, Azo aromatic polypeptides: 257
Succinoglycan polysaccharide
Conformational transition, Polyelectrolyte: 195
Rheology, Structural transition: 201
Surface shear viscometry
Protein–protein interactions, Milk protein films: 189

Thermal denaturation
Bovine serum albumin, Differential scanning calorimetry: 263
Thermal melting
Bony fish, 5S ribosomal RNA: 35
Thermal properties
Biopolymers, Viscoelasticity: 112
Thermodynamic parameters
Calcium-induced gelation, Sol–gel diagrams: 14
Thermodynamics
Polyuronic acids, Proton dissociation: 170
Transition temperatures
Structural alteration, Low density lipoproteins: 207
Tryptophan
Lipids, Conformation: 251
Twist angles
DNA, Double helix: 226

Unsaturated polyesters
Pseudomonas oleovorans, Micro-organism: 85
U.v. fluorescence
Calpain, Calmodulin antagonists: 269

Viscoelasticity
Biopolymers, Thermal properties: 112

Welan
Polysaccharides, Rheology: 379
Whey
Lactoferrin, β-lactoglobulin: 2

X-ray crystallography
Carbonic anhydrase, acetazolamide: 342
X-ray diffraction
Pea xyloglucan, Conformational analysis: 218
Poly(β-hydroxyalkanoates), Helical conformation: 158
Xanthan
Intrinsic viscosity, Microbial polysaccharide: 71